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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/567,488	03/06/2006	Takeshi Kobayashi	126923	1001
25944 75	590 06/13/2006		EXAMINER	
OLIFF & BERRIDGE, PLC			HITESHEW, FELISA CARLA	
P.O. BOX 19928 ALEXANDRIA, VA 22320			ART UNIT	PAPER NUMBER
			1722	
			DATE MAILED: 06/13/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/567,488	KOBAYASHI, TAKESHI	
Office Action Summary	Examiner	Art Unit	
	Felisa C. Hiteshew	1722	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim iill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	l. ely filed the mailing date of this communication. 0 (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on      This action is <b>FINAL</b> . 2b)⊠ This      Since this application is in condition for allowan closed in accordance with the practice under E	action is non-final. ace except for formal matters, pro		
Disposition of Claims			
4) ☐ Claim(s) 17-36 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 17-20,22-30 and 35 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers  9) ☐ The specification is objected to by the Examiner 10) ☐ The drawing(s) filed on is/are: a) ☐ access	vn from consideration.  relection requirement.  r.  epted or b) □ objected to by the E		
Applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Expression 11.	on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date see attached paper.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:		

## **Priority**

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

## Information Disclosure Statement

The PTOL-1449 has been received.

## Claim Rejections - 35 USC § 103

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 17-30,33 and 35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Japanese 2001-053078.

Japanese 2001-053078 teaches a method of producing a silicon wafer which is sliced off from a silicon single crystal ingot, ground and polished, is subjected to an IG processing method where it is quickly heated with a temperature rise rate of 10\*C/minute in the temperature range from a room temperature to 800 to 900\*C and left to stand for 0.5 to 30 minutes. An ingot is pulled up from a silicon melt so as to be formed of a perfect region [P] where no hole defect aggregate and mo interstitial silicon

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defect aggregate exit. The ingot, which is pulled up from a silicon melt, free from dislocations, and contains oxygen deposits. The temperature range from a room temperature to 650\*C for 0 to 3 hours, then held at 700 to 800\*C for 3 to 10 hours, and then cooled down to a room temperature.

The difference being that Japanese 2001-053078 does not teach a method for producing a wafer wherein the heat-treated ingot is process into mirror-like wafers.

However, in the absence of unobvious results, it would have been obvious to one or ordinary skill in the art to modify and optimize the process parameter limitations in order to ensure proper orientation.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Felisa Hiteshew whose telephone number is (571) 272-1463. The examiner can normally be reached on Mondays through Thursday from 5:30 AM to 4:00 PM with Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yogendra Gupta, can be reached on (571) 272-1316. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-1463.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system. see

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http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866- 217-9197 (toll-free).

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